

# PCT

### INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference TP 1432 WO	FOR FURTHER ACTION			International Search Report where applicable, item 5 below.		
International application No.	International filing dat	e (day month year)	(Earliest) Pr	riority Date (day/month/year)		
PCT/SE 03/00181	3 February 20	03	12 Febru	ary 2002		
Applicant			<u> </u>			
Tetra Laval Holdings & Fig	nance S.A. et al					
This international search report has applicant according to Article 18. A				and is transmitted to the		
This international search report cons	ists of a total of $3$	sheets.				
$\mathbf{X}$ It is also accompanied by	y a copy of each prior a	rt document cited i	n this report.	· · · · · · · · · · · · · · · · · · ·		
1. Basis of the report						
a. With regard to the language, the in the language in which it was				e international application		
the international search v to this Authority (Rule 2)		asis of a translation	of the intern	ational application furnished		
b. With regard to any nucleotide a international search was carrie			international	application, the		
contained in the internati	onal application in writt	en form.		ł <sup>1</sup>		
filed together with the int	ernational application ir	i computer readabl	e form.			
furnished subsequently to	this Authority in writte	n form.				
furnished subsequently to	this Authority in comp	uter readable form.				
the statement that the sub the international applicat			g does not go	beyond the disclosure in		
the statement that the inf listing has been furnished	ormation recorded in co	mputer readable fo	orm is identica	al to the written sequence		
2. Certain claims were found	<mark>l unsearchable (</mark> See Box	I).				
3. Unity of invention is lack	ing (See Box II).			•		
4. With regard to the title,						
the text is approved as su	bmitted by the applican	t.				
$\mathbf{X}$ the text has been establish	hed by this Authority to	read as follows:				
ULTRASOUND HORN				•		
5. With regard to the abstract,						
$\mathbf{X}$ the text is approved as su	• ••					
the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box III. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.						
	6. The figure of the drawings to be published with the abstract is Figure No3					
X as suggested by the applic				None of the figures.		
because the applicant fail						
because this figure better	characterizes the invent	ion.				

Form PCT/ISA/210 (first sheet) (July 1998)

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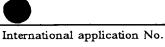
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#### INTERNATIONAL SEARCH REPORT



PCT/SE 03/00181

#### A. CLASSIFICATION OF SUBJECT MATTER

# IPC7: B29C 65/08, B65B 51/22, B06B 3/00 According to International Patent Classification (IPC) or to both national classification and IPC

#### **B. FIELDS SEARCHED**

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Minimum documentation searched (classification system followed by classification symbols)

#### IPC7: B29C, B06B, B65B, B23K

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

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#### SE,DK,FI,NO classes as above

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

### EPO-INTERNAL, WPI DATA, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where app	propriate, of the relevant passages	Relevant to claim No.			
x	GB 2344487 A (HERFURTH UK LIMITE (07.06.00), page 5, line 9 - line 13 - line 17, figures 2 abstract	·line 22; page 8,	1-9			
A	figures 2,20,22		10,11			
X	US 5879364 A (BROMFIELD ET AL), (09.03.99), column 7, line 2 figures 2,6A-10A, abstract	9 March 1999 7 - column 9, line 41,	1-9			
A	figures 2,6A-10A		10,11			
X Furth	er documents are listed in the continuation of Box	C. X See patent family annex	<b>Χ</b> .			
"A" docum to be o	categories of cited documents: ent defining the general state of the art which is not considered f particular relevance application or patent but published on or after the international late	<ul> <li>"T" later document published after the int date and not in conflict with the appli the principle or theory underlying the</li> <li>"X" document of particular relevance: the</li> </ul>	cation but cited to understand invention claimed invention cannot be			
"L" docum cited to special	ent which may throw doubts on priority claim(s) or which is o establish the publication date of another citation or other reason (as specified)	<ul> <li>considered novel or cannot be considered novel or cannot be considered when the document is taken along</li> <li>"Y" document of particular relevance: the considered to involve an inventive step</li> </ul>	e claimed invention cannot be p when the document is			
<ul> <li>"O" document referring to an oral disclosure, use, exhibition or other means</li> <li>"P" document published prior to the international filing date but later than</li> </ul>		combined with one or more other such documents, such combination being obvious to a person skilled in the art				
the pri-	ority date claimed e actual completion of the international search	"&" document member of the same patent Date of mailing of the international s				
13 May	-	1 5 -05- 2003	-			
Name and	a mailing address of the ISA/	Authorized officer				
Box 5055	Patent Office 5, S-102 42 STOCKHOLM No. +46 8 666 02 86	Fredrik Andersson/MP Telephone No. +46 8 782 25 00				
	SA/210 (second sheet) (July 1998)		· · · · · · · · · · · · · · · · · · ·			

## INTERNATIONAL SEARCH REPORT

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International application No.

PCT/SE 03/00181

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C (Continu	ation). DOCUMENTS CONSIDERED TO BE RELEVANT	
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A .	US 2001027987 A1 (KYOMASU ET AL), 11 October 2001 (11.10.01), figures 1A,1B,4A,4B, claims 1-4, abstract	1-11
A	US 4651043 A (HARRIS ET AL), 17 March 1987 (17.03.87), figures 1-3, claims 1-7, abstract	1-11
A	 US 5110403 A (EHLERT), 5 May 1992 (05.05.92), figures 1-17, claims 1-12, abstract	10,11
A	 EP 0748660 A1 (TETRA LAVAL HOLDINGS & FINANCE SA), 18 December 1996 (18.12.96), figure 2, claims 1-5, abstract	10,11
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INTERNATIONAL SEARCH REPORT Information on patent family members

International application No.

	nation o	n pati	ent family members	2	9/04/03	PCT/SE	03/00181
Patent document cited in search repo			Publication date		Patent family member(s)		Publication date
GB 23444	487 /	 ¥	07/06/00	AU GB WO	13951 98262 00323	96 D	19/06/00 00/00/00 08/06/00
US 58793	 364 A	 A	09/03/99	AU AU CA EP JP US	7107 23586 22066 08126 102254 57467	97 A 33 A 27 A 61 A	30/09/99 11/12/97 03/12/97 17/12/97 25/08/98 05/05/98
US 20010279	987 A	1	11/10/01	JP JP TW US	334770 200129174 47703 642244	47 A 16 B	20/11/02 19/10/01 00/00/00 23/07/02
JS 46510	043 A		17/03/87	DE FR GB GB JP	258898		23/04/87 24/04/87 13/05/87 00/00/00 05/06/87
JS 51104	103 A		05/05/92	NONE			
EP 07486	560 A	.1	18/12/96	SE AU AU BR CA CN DE DK SE SE	074866 17590 70534 559789 960281 217897 108863 114653 6960139 74866 212812 900243 22849 50382 950220	01 T 15 B 14 A 14 A 12 A 13 C 14 A 15 A 14 A 15 B 15 A 16 A 17 A 17 A 18 A 18 A 19 A	15/02/99 20/05/99 02/01/97 06/10/98 17/12/96 07/08/02 02/04/97 27/05/99 13/09/99 01/05/99 01/05/99 07/01/97 01/11/99 16/09/96 16/09/96